

Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Luther Warren Drive Outfall

Project #: 2010-056

Completed: Jan-10

Before

Narrative Description of Project:

Project improved 450 L.F. of drainage system. Cleaned out 430 L.F. of outfall ditch. Installed 20 L.F. of outfall pipe and (1) flap gate. Cleaned out (2) catch basins. Jetted (1) crossline pipe and (1) access pipe. Installed rip rap and hydroseeded for erosion control.

Material Cost, Rental Equipment Summary, and Labor

24" Flap Gate each \$2,016.26 1.0 \$2,016.26 Fill Dirt ton \$1.00 42.4 \$42.42 Rip Rap ton \$47.08 14.9 \$701.96 #57 Stone ton \$34.78 6.8 \$236.50 Filter Blanket Woven sy \$0.63 69.4 \$43.75 Turf Staples each \$0.03 50.0 \$1.50 10-10 Fertilizer bag \$11.72 1.0 \$11.72 Hydromulch bale \$12.22 2.0 \$24.44 Hydrogel cup \$2.82 1.0 \$2.82 Hydromax Liquid Fertilizer cup \$2.82 1.0 \$2.82 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$0.01 1,500 \$15.00 Gas gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost	Material	Unit	Cost/Unit	Qty	Cost			
Fill Dirt ton \$1.00 42.4 \$42.42 Rip Rap ton \$47.08 14.9 \$701.96 #57 Stone ton \$34.78 6.8 \$236.50 Filter Blanket Woven sy \$0.63 69.4 \$43.75 Turf Staples each \$0.03 50.0 \$11.50 10-10-10 Fertilizer bag \$11.72 1.0 \$11.72 Hydromulch bale \$12.22 2.0 \$24.44 Hydrogel cup \$2.82 1.0 \$2.82 Hydromax Liquid Fertilizer cup \$2.54 1.0 \$2.54 Annual Rye Grass Seed bag \$11.21 1.0 \$11.921 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. \$60.30 \$60.30 Bobcat T300 22847 \$20.10	24" Aluminum Pipe	linear feet	\$10.62	20.0	\$212.40			
Rip Rap ton \$47.08 14.9 \$701.96 #57 Stone ton \$34.78 6.8 \$236.50 Filter Blanket Woven sy \$0.63 69.4 \$43.75 Turf Staples each \$0.03 50.0 \$11.50 10-10-10 Fertilizer bag \$11.72 1.0 \$11.72 Hydromulch bale \$12.22 2.0 \$24.44 Hydrogel cup \$2.82 1.0 \$2.82 Hydromax Liquid Fertilizer cup \$2.54 1.0 \$2.54 Annual Rye Grass Seed bag \$19.21 1.0 \$19.21 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. \$6	24" Flap Gate	each	\$2,016.26	1.0	\$2,016.26			
#57 Stone ton \$34.78 6.8 \$236.50 Filter Blanket Woven sy \$0.63 69.4 \$43.75 Turf Staples each \$0.03 50.0 \$11.50 10-10-10 Fertilizer bag \$11.72 1.0 \$11.72 Hydromulch bale \$12.22 2.0 \$24.44 Hydrogel cup \$2.82 1.0 \$2.82 Hydromax Liquid Fertilizer cup \$2.54 1.0 \$2.54 Annual Rye Grass Seed bag \$19.21 1.0 \$19.21 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost \$60.30 Bobcat T300 22847 \$20.10 3.0 \$60.30 Bobcat T320 23388 \$21.00<	Fill Dirt	ton	\$1.00	42.4	\$42.42			
Filter Blanket Woven sy \$0.63 69.4 \$43.75 Turf Staples each \$0.03 50.0 \$1.50 10-10-10 Fertilizer bag \$11.72 1.0 \$11.72 Hydromulch bale \$12.22 2.0 \$24.44 Hydrogel cup \$2.82 1.0 \$2.82 Hydromax Liquid Fertilizer cup \$2.54 1.0 \$2.54 Annual Rye Grass Seed bag \$19.21 1.0 \$19.21 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost \$12,485.30 \$6.0 \$111.90 Bobcat T300 22847 \$20.10 3.0 \$60.30 \$60.30 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$14	Rip Rap	ton	\$47.08	14.9	\$701.96	During		
Turf Staples each \$0.03 50.0 \$1.50 10-10-10 Fertilizer bag \$11.72 1.0 \$11.72 Hydromulch bale \$12.22 2.0 \$24.44 Hydromax Liquid Fertilizer cup \$2.82 1.0 \$2.82 Hydromax Liquid Fertilizer cup \$2.54 1.0 \$2.54 Annual Rye Grass Seed bag \$19.21 1.0 \$19.21 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost \$12,485.30 After Komatsu Mini Excavator 23000 \$18.65 6.0 \$111.90 \$00cat T300 \$22847 \$20.10 3.0 \$60.30 Bobcat T320 <td< td=""><td>#57 Stone</td><td>ton</td><td>\$34.78</td><td>6.8</td><td>\$236.50</td><td></td></td<>	#57 Stone	ton	\$34.78	6.8	\$236.50			
10-10-10 Fertilizer bag \$11.72 1.0 \$11.72 Hydromulch bale \$12.22 2.0 \$24.44 Hydrogel cup \$2.82 1.0 \$2.82 Hydromax Liquid Fertilizer cup \$2.54 1.0 \$2.54 Annual Rye Grass Seed bag \$19.21 1.0 \$19.21 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost \$12,485.38 Komatsu Mini Excavator 23000 \$18.65 6.0 \$111.90 Bobcat T300 22847 \$20.10 3.0 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$147.00 JD Loader 444J 23271 \$36.50 3.0 \$109.50	Filter Blanket Woven	sy	\$0.63	69.4	\$43.75			
Hydromulch bale \$12.22 2.0 \$24.44 Hydrogel cup \$2.82 1.0 \$2.82 Hydromax Liquid Fertilizer cup \$2.54 1.0 \$2.54 Annual Rye Grass Seed bag \$19.21 1.0 \$19.21 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$0.01 1,500 \$15.00 Gas gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost Equipment Cost Maset No. Cost/Hou Hrs. Cost Komatsu Mini Excavator 23000 \$18.65 6.0 \$111.90 Bobcat T300 22847 \$20.10 3.0 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$147.00 JD Loader 444J 23271	Turf Staples	each	\$0.03	50.0	\$1.50			
Hydrogel cup \$2.82 1.0 \$2.82 Hydromax Liquid Fertilizer cup \$2.54 1.0 \$2.54 Annual Rye Grass Seed bag \$19.21 1.0 \$19.21 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$0.01 1,500 \$15.00 Gas gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost Equipment Cost 23000 \$18.65 6.0 \$111.90 Bobcat T300 22847 \$20.10 3.0 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$147.00 JD Loader 444J 23271 \$36.50 3.0 \$109.50	10-10-10 Fertilizer	bag	\$11.72		\$11.72			
Hydromax Liquid Fertilizer cup \$2.54 1.0 \$2.54 Annual Rye Grass Seed bag \$19.21 1.0 \$19.21 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$0.01 1,500 \$15.00 Gas gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost \$12,300 \$18.65 6.0 \$111.90 Bobcat T300 22847 \$20.10 3.0 \$60.30 \$60.30 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$147.00 JD Loader 444J 23271 \$36.50 3.0 \$109.50	Hydromulch	bale	\$12.22	2.0	\$24.44			
Annual Rye Grass Seed bag \$19.21 1.0 \$19.21 Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$0.01 1,500 \$15.00 Gas gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost \$12,300 \$111.90 Bobcat T300 22847 \$20.10 3.0 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$147.00 JD Loader 444J 23271 \$36.50 3.0 \$109.50		cup	\$2.82	1.0	\$2.82			
Pin Flag each \$0.06 7.0 \$0.42 Water gallon \$0.01 1,500 \$15.00 Gas gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. \$12,485.38 After Equipment Cost Asset No. Cost/Hou Hrs. Cost Bobcat T300 22847 \$20.10 3.0 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$147.00 JD Loader 444J 23271 \$36.50 3.0 \$109.50		cup	\$2.54		\$2.54			
Water gallon \$0.01 1,500 \$15.00 Gas gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost Komatsu Mini Excavator 23000 \$18.65 6.0 \$111.90 Bobcat T300 22847 \$20.10 3.0 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$147.00 JD Loader 444J 23271 \$36.50 3.0 \$109.50	Annual Rye Grass Seed	bag	\$19.21	1.0	\$19.21			
Gas gallon \$2.54 30.0 \$76.20 Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. Finge benefits. After Equipment Cost Cost/Hou Hrs. Cost Komatsu Mini Excavator 23000 \$18.65 6.0 \$111.90 Bobcat T300 22847 \$20.10 3.0 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$147.00 JD Loader 444J 23271 \$36.50 3.0 \$109.50	Pin Flag	each	\$0.06	7.0	\$0.42			
Diesel gallon \$2.46 227.0 \$558.42 Labor hours 249.5 \$8,519.82 Total Cost of Materials, Rental Equip., and Labor \$12,485.38 After Note: Labor cost includes the employee's salary plus fringe benefits. \$12,485.38 After Equipment Cost Cost/Hou Hrs. Cost Komatsu Mini Excavator 23000 \$18.65 6.0 \$111.90 Bobcat T300 22847 \$20.10 3.0 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$147.00 JD Loader 444J 23271 \$36.50 3.0 \$109.50	Water	gallon	\$0.01	1,500	\$15.00			
Laborhours249.5\$8,519.82Total Cost of Materials, Rental Equip., and Labor\$12,485.38AfterNote: Labor cost includes the employee's salary plus fringe benefits.Equipment CostItem Asset No. Cost/Hou Hrs. CostKomatsu Mini Excavator23000\$18.656.0Bobcat T30022847\$20.103.0\$60.30Bobcat T32023388\$21.007.0\$147.00JD Loader 444J23271\$36.503.0\$109.50	Gas	gallon	\$2.54	30.0	\$76.20			
Total Cost of Materials, Rental Equip., and Labor\$12,485.38AfterNote: Labor cost includes the employee's salary plus fringe benefits.Equipment CostItemAsset No.Cost/HouHrs.CostKomatsu Mini Excavator23000\$18.656.0\$111.90Bobcat T30022847\$20.103.0\$60.30Bobcat T32023388\$21.007.0\$147.00JD Loader 444J23271\$36.503.0\$109.50	Diesel	gallon	\$2.46		\$558.42			
Note: Labor cost includes the employee's salary plus fringe benefits.Equipment CostItemAsset No.Cost/HouHrs.CostKomatsu Mini Excavator23000\$18.656.0\$111.90Bobcat T30022847\$20.103.0\$60.30Bobcat T32023388\$21.007.0\$147.00JD Loader 444J23271\$36.503.0\$109.50	Labor	hours		249.5	\$8,519.82			
Item Asset No. Cost/Hou Hrs. Cost Komatsu Mini Excavator 23000 \$18.65 6.0 \$111.90 Bobcat T300 22847 \$20.10 3.0 \$60.30 Bobcat T320 23388 \$21.00 7.0 \$147.00 JD Loader 444J 23271 \$36.50 3.0 \$109.50	Total Cost of Materials, Rental Equip., and Labor \$12,485.38							
Komatsu Mini Excavator23000\$18.656.0\$111.90Bobcat T30022847\$20.103.0\$60.30Bobcat T32023388\$21.007.0\$147.00JD Loader 444J23271\$36.503.0\$109.50	Note: Labor cost includes the employee's salary plus fringe benefits. Equipment Cost							
Bobcat T30022847\$20.103.0\$60.30Bobcat T32023388\$21.007.0\$147.00JD Loader 444J23271\$36.503.0\$109.50	Item	Asset No.	Cost/Hou	Hrs.	Cost			
Bobcat T32023388\$21.007.0\$147.00JD Loader 444J23271\$36.503.0\$109.50		23000	\$18.65		\$111.90			
JD Loader 444J 23271 \$36.50 3.0 \$109.50	Bobcat T300	22847	\$20.10	3.0	\$60.30			
	Bobcat T320	23388	\$21.00	7.0	\$147.00			
Vacuum Truck 22812 \$20.30 7.0 \$142.10	JD Loader 444J	23271	\$36.50		\$109.50			
	Vacuum Truck	22812	\$20.30	7.0	\$142.10			



Site Photographs





Luther Warren Drive Outfall Project Summary Con't

Project #: 2010-056

Equipment Cost									
ltem	Asset No.	Cost/Hou	Hrs.	Cost					
Hydroseeder	18909	\$7.35	1.0	\$7.35					
Dump Trucks		\$16.68	66.5	\$1,109.22					
Pickup Trucks		\$4.17	56.5	\$235.61					
Total Equipment Cost	\$1,922.98								

Cost/hour excludes fuel cost.

Total Cost:

\$14,408.36

Site Photographs



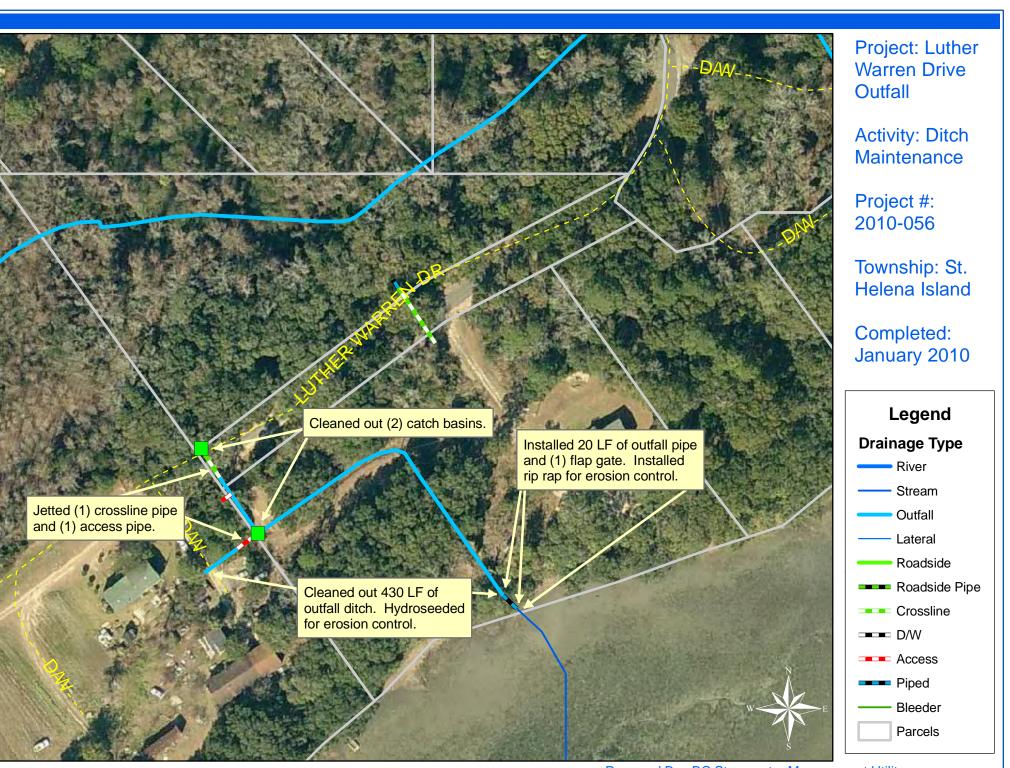




After

Before

During



0 30 60 120 180 240 Feet

1 inch equals 110 feet

Prepared By: BC Stormwater Management Utility Date Print: 8/24/10 File:C:/sethdata/projects/projectmaps/Luther Warren Dr 2010-056